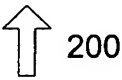
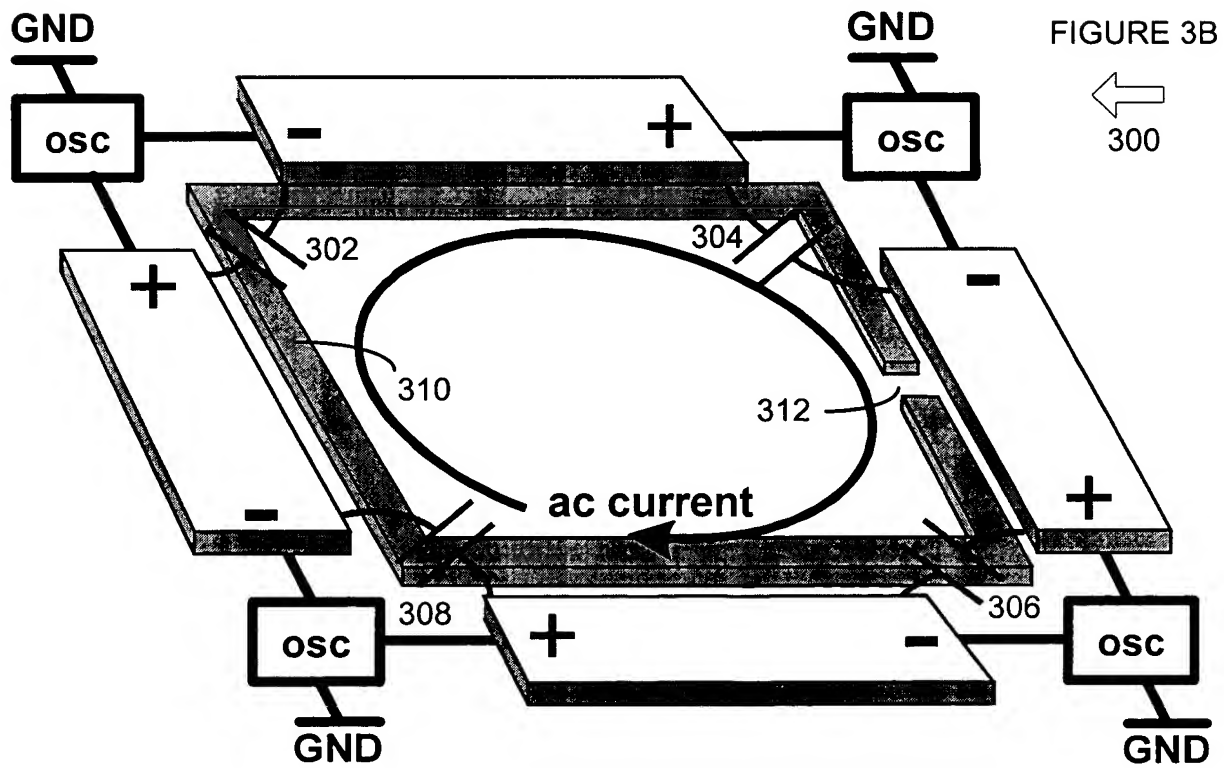
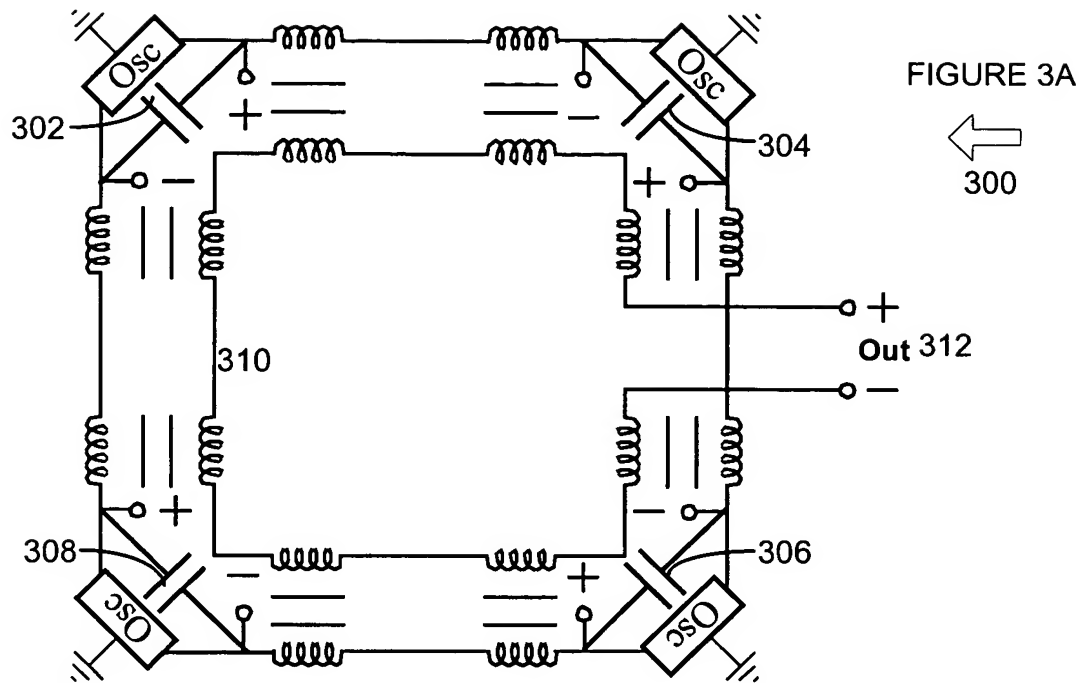


FIGURE 2





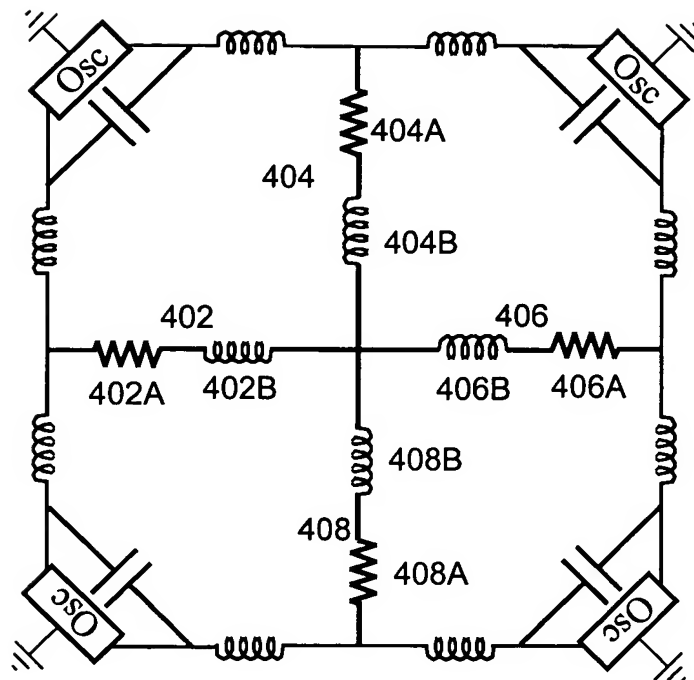


FIGURE 4A

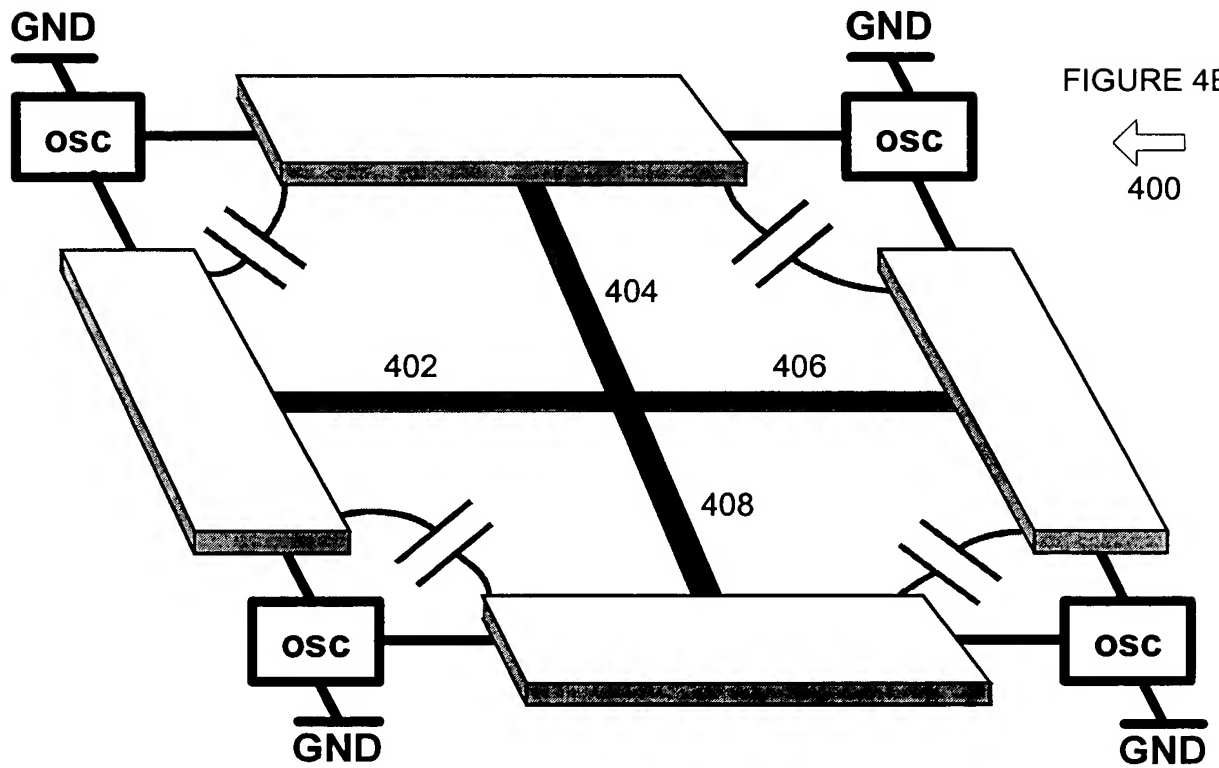


FIGURE 4B



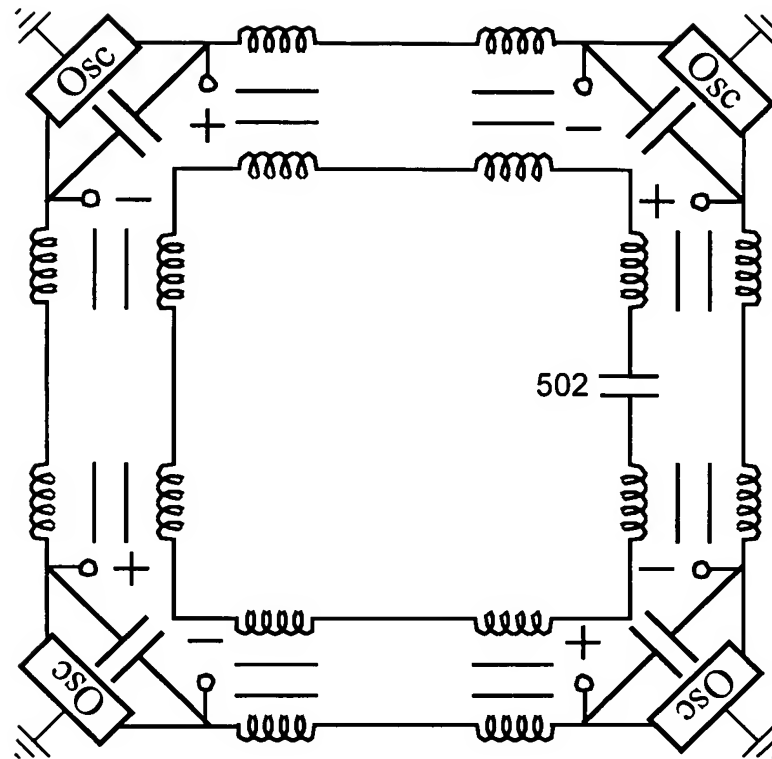


FIGURE 5A

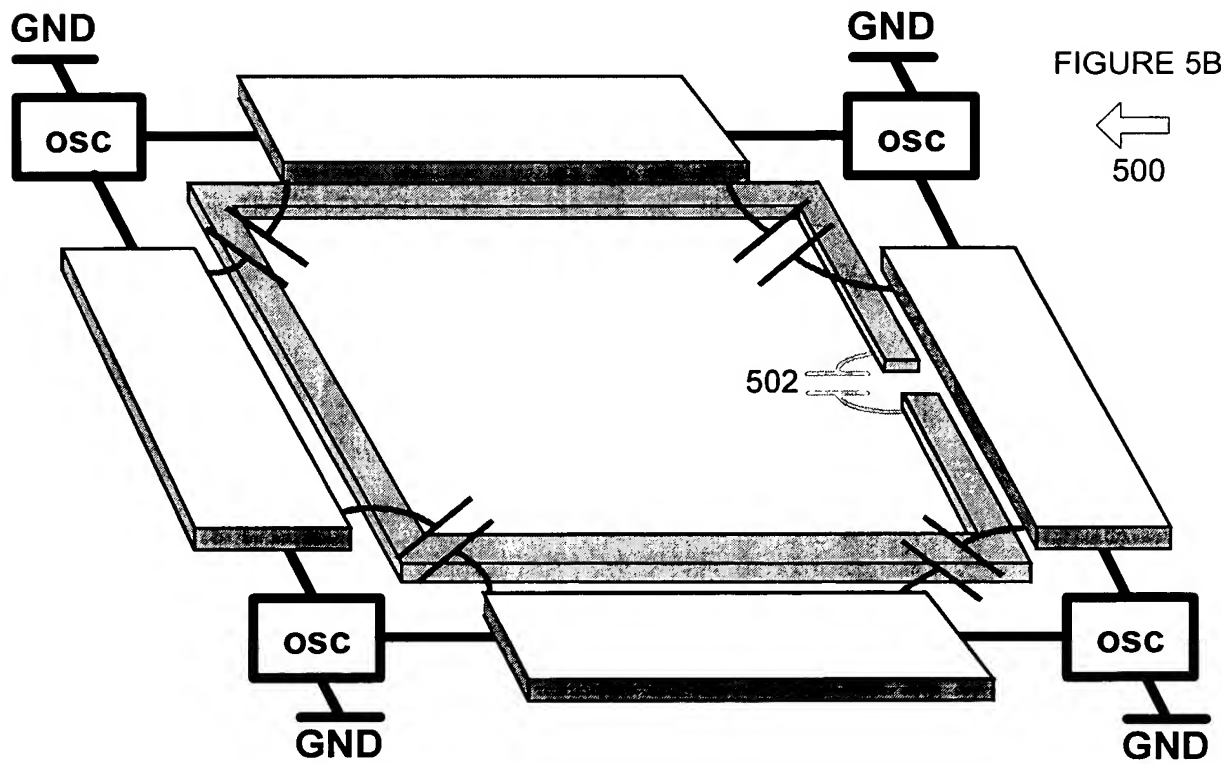


FIGURE 5B



Technology	SiGe IBM 7HP	SiGe IBM 7HP
Mimumum Channel Length	0.18 μm	0.18 μm
Output Frequency	5.33 GHz	5.36 GHz
Frequency Tuning	--	8.3%
Output Power	1 dBm	1 dBm
V_{DD}	1.4 V	1.8 V
I_{bias}	10 mA	12 mA
Phase Noise at 10 MHz Offset	-147.3 dBc/Hz	-142.2 dBc/Hz

FIGURE 6

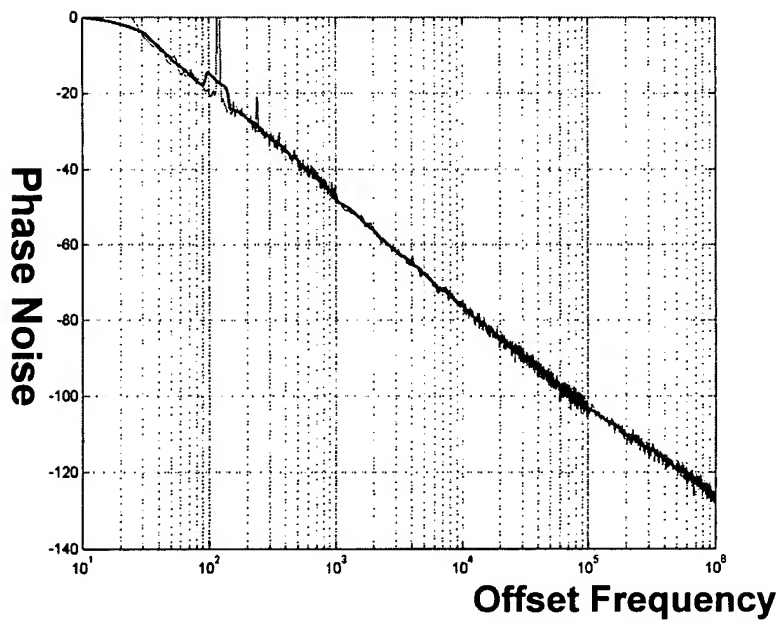
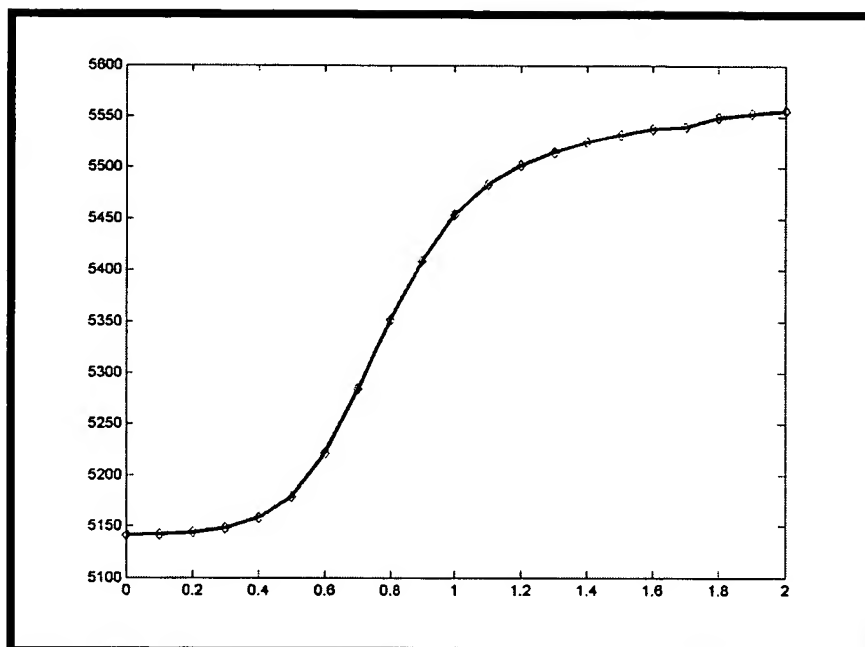
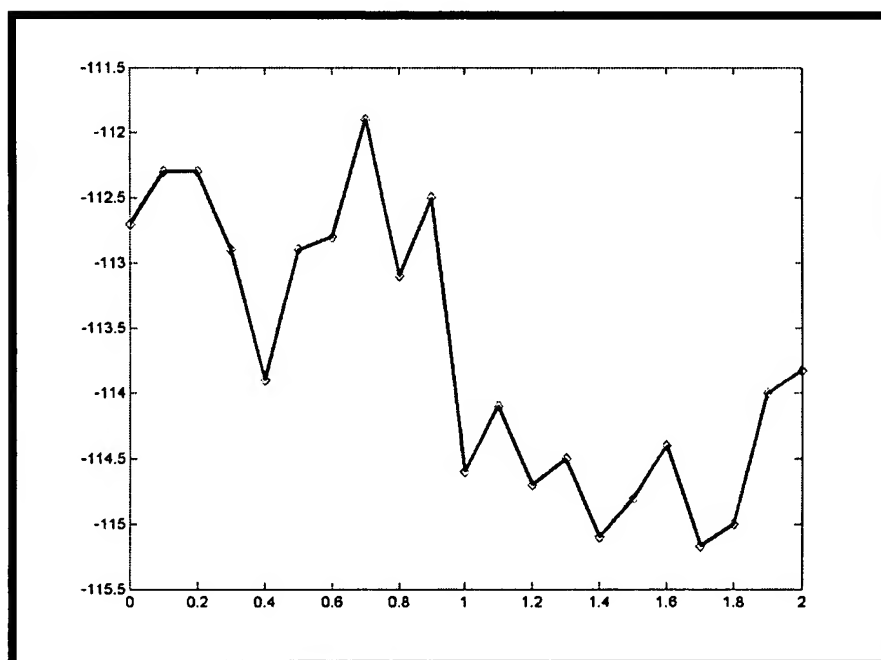


FIGURE 7



Voltage to Frequency
Transfer Function

FIGURE 8



Phase noise @600KHz offset
 $V_{dd}=1.8V$ and $I_{bias}=12mA$

FIGURE 9

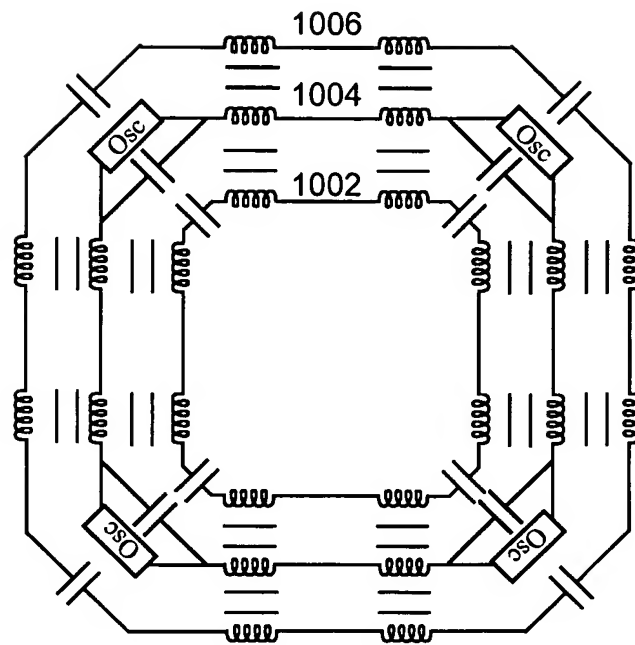


FIGURE 10

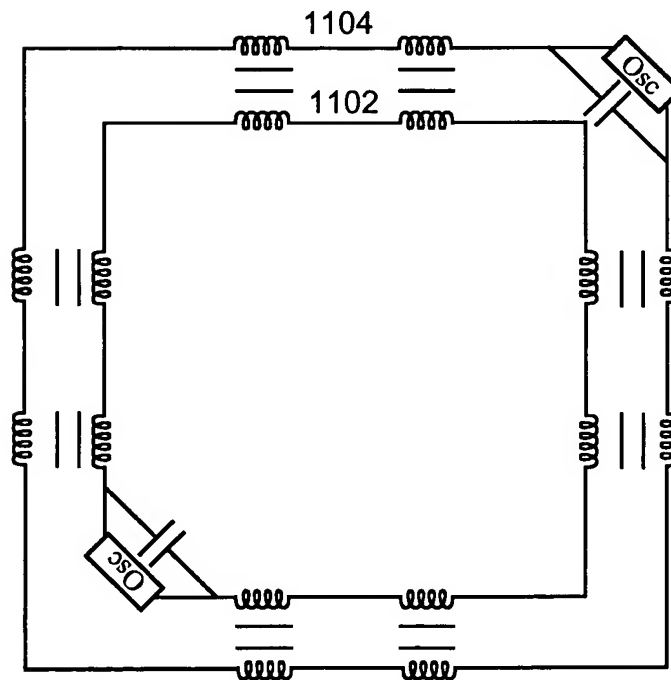

 1000

FIGURE 11

 1100

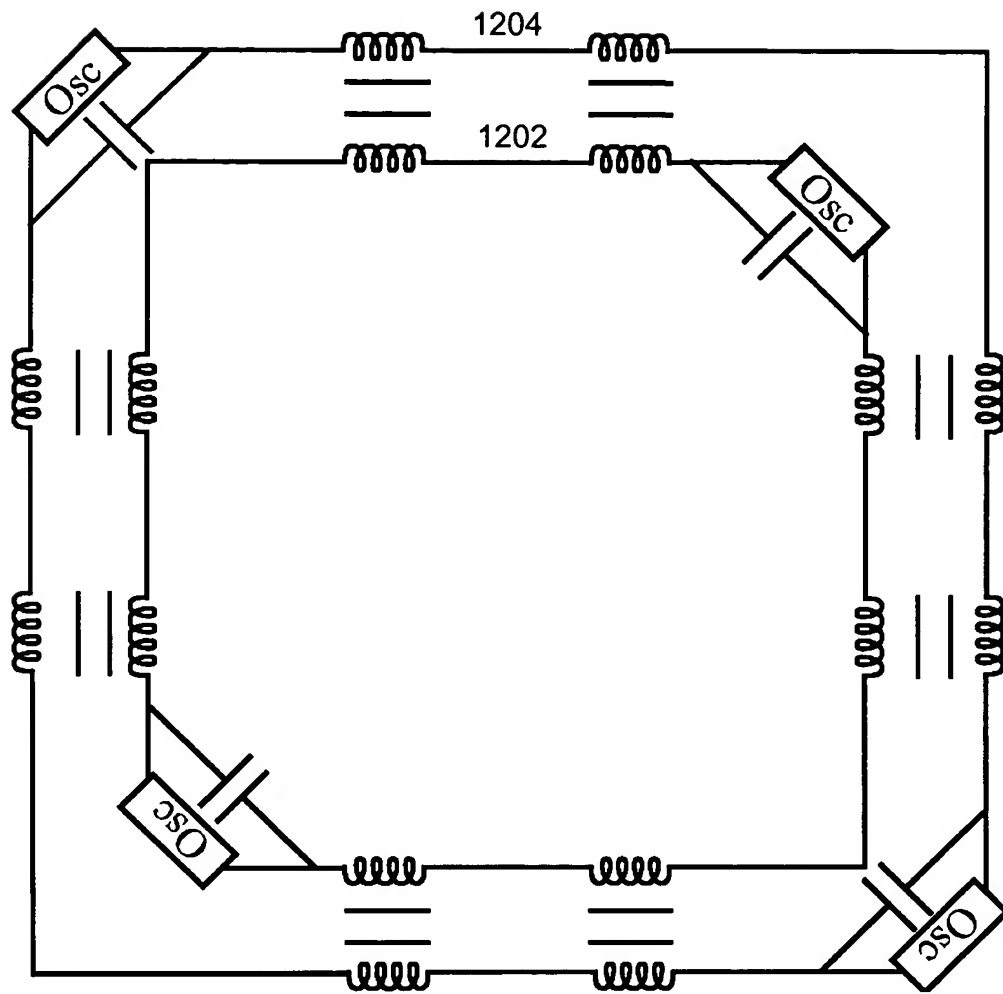


FIGURE 12

↑ 1200